



NATIONAL OPTICAL
ASTRONOMY
OBSERVATORY

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MONSOON
Bill of Materials
Clock & Bias Transition Orion Test Set

Dwg No.: MNSN-EL-04-4007 Rev: -1
Next Assembly:

LTR	DESCRIPTION	ECR	DATE	BY	APPRVD
-1	Correct p/n for D3, D4, D7	devel	17-Aug-04	dms	pjm

Bill of Materials
CLOCK BIAS TRANSITION ORION TEST SET

DWG#: MNSN-EL-04-4007
3/23/2006

ITEM	QTY	RefDes	Value	Part Number	MFR	PN Digikey	Description
1	1			MNSN-EL-04-1007	NOAO		PCB BLANK, Clock and Bias transition, Orion Test set
2	1	D3		1N5334B	Microsemi Corp.	1N5334BMSCT-ND	Diode, Zener 3.6V 1A 5W T-18
3	1	U2		ADM9264ARN	Analog Devices	{PN Digikey}	IC, quad power supply monitor
4	1	J1		4-103185-0	Amp	A26513-ND	Con, 20 x 2 .1 ctr unshrouded breakaway header
5	1	J2		4-103185-0	Amp	A26513-ND	Con, 20 x 2 .1 ctr unshrouded breakaway header
6	1	TB1	GNDIN	55558-4	Tyco/Amp	55558-4-ND	
7	1	P1		103311-7	Amp / Tyco	A26296-ND	Con, 34 pin RA walled header .1 center
8	1	P4		104130-4	Amp/ Tyco	A26305-ND	Con, 20 pin .1 ctr right angle latching
9	2	P2, P3		104130-7	Amp / Tyco	A26309-ND	Con, 40 pin RA walled header latching .1 center
10	3	C5, C7, C10	0.1uF	ECJ-2YB1H104K	Panasonic	PCC1840CT-ND	Cap, Cerc 0805 0.1uF 50V 10% X7R
11	4	C1, C2, C3, C4	47uF	EEFWA1D470P	Panasonic	PCE2149CT-ND	Cap, Alum Electrolytic 47uF 20V +-20%
12	1	RJ4		064176	ERNI	N/A	Con, right angle female cPCI 110 pin rJ1, rJ4 position
13	1	RJ5		064785	ERNI	n/a	Con, right angle female cPCI 110 pin rJ2, rJ5 position
14	1	RJ3		064784	ERNI		Con, right angle female cPCI 95 pins RJ3 position
15	1	C9	47uF	T494B476M010AS	Kemet	399-3007-1-ND	Cap, Tant 47uF 10V 20% T494 SERIES size B (3528)
16	2	C6, C8	47uF	ECS-T1AD476R	Panasonic	PCS2476CT-ND	Cap, Tant 47uF 10V 20% SMT7343
17	1	F1	?A	miniSMDC050	Raychem / Tyco Electronics	MINISMDC050CT-ND	Fuse, reset able 15V max 8A trip 0.5A IH
18	1	JP1		4-103185-0	Amp / Tyco	A26513-ND	Jumper, header strip 2 x 1 .1 center .025 sq posts (break to size)
19	1	JP2		18 - 20 awg wire			wire, 18 - 20 awg wire loop
20	4	L1, L2, L3, L4	100uH	8532-25L	Delevan	DN3225CT-ND	Inductor, SMT high current power 100uH 1.30 A max, .64 A incremental
21	22	R1, R2, R3, R4, R5, R6, R7, R8, R9, R14, R18, R19, R20, R21, R33, R34, R35, R36, R37, R38, R39, R40	0	ERJ-6GEY0R00V	Panasonic	P0.0ATR-ND	Resistor, 0 ohm 5% 1/10 Watt 0805
22	12	R10, R11, R12, R13, R15, R16, R17, R22, R23, R24, R25, R26	OPEN	ERJ-6GEY0R00V	Panasonic	P0.0ATR-ND	Resistor, 0 ohm 5% 1/10 Watt 0805
23	4	R27, R41, R42, R43	10	ERJ-8ENF10R0V	Panasonic	P10.0FCT-ND	Resistor, 10 1% 1/8 Watt 1206
24	1	R31	1.33K	9C12063A1331FKHFT	Yageo	311-1.33KFCT-ND	Resistor, 1.33K 1% 1/4 Watt 1206
25	1	R29	165	9C12063A1650FKHFT	Yageo	311-165FCT-ND	Resistor, 165 1% 1/4 Watt 1206
26	1	R28	20.0K	9C12063A2002FKHFT	Yageo	311-20.0KFCT-ND	Resistor, 20.0K 1% 1/4 Watt 1206
27	1	R32	2.67K	9C12063A2671FKHFT	Yageo	311-2.67KFTR-ND	Resistor, 2.67K 1% 1/4 Watt 1206
28	1	R30	806	9C12063A8060FKHFT	Yageo	311-806FCT-ND	Resistor, 806 1% 1/4 Watt 1206
29	1	TB2		9993340000	Weidmuller	281-1418-ND	TBLK, 8 position pcb mount
30	1	U1		TPS75233QPWP	TI	{PN Digikey}	IC, Voltage regulator, 2A low dropout, fast transient
31	1	D8		SMCJ6.0A-13	Diodes, Inc.	SMCJ6.0ADICT-ND	Diode, TVS 1500W SMC 6V unidirectional SMC
32	6	D1, D2, D5, D6, D9, D10		ZHCS1006TA	Zetek	ZHCS1006CT-ND	Diode, schottky barrier high current

